

5 **CREATION OF A BIOLOGICAL ATRIOVENTRICULAR BYPASS TO COMPENSATE**  
**FOR ATRIOVENTRICULAR BLOCK**

**Abstract of the Disclosure**

A method of creating an atrioventricular bypass tract for a  
10 heart comprises growing mesenchymal stem cells into a strip  
with two ends, attaching one end of the strip onto the atrium  
of the heart, and attaching the other end of the strip to the  
ventricle of the heart, to create a tract connecting the  
15 atrium to the ventricle to provide a path for electrical  
signals generated by the sinus node to propagate across the  
tract and excite the ventricle.